

Comprehensive Everglades Restoration Plan

Melaleuca Eradication and other Exotic Plants – Implement Biological Controls Project

Agenda Items #37 and #38

SFWMD Governing Board
July 15, 2010

*Paul A. Warner, Chief Scientist, Federal and State Policy Division,
Everglades Restoration and Capital Projects*

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Governing Board Actions Requested

1. Agenda Item #37: Authorize entering into a Project Partnership Agreement with the U.S. Army Corps of Engineers (USACE)
2. Agenda Item #38: Authorize entering into a Cooperative Agreement with the Board of Trustees for the Internal Improvement Trust Fund for the State of Florida, the University of Florida Board of Trustees and the U.S. Department of Agriculture (USDA)



Project Scope

- Construct a 2,700 square-foot Mass Rearing Annex next to the USDA Invasive Plant Research Laboratory in Davie, Florida
- Operate and maintain the annex for 24 years, including the mass-rearing, releasing and monitoring of biological control agents for controlling invasive exotic plants



Control Agents for Melaleuca

Previously released



Melaleuca weevil
(*Oxyops vitiosa*) -
1997



Melaleuca psyllid
(*Boreioglycaspus melaleucae*) - 2002



Melaleuca gall fly
(*Fergusonina turneri*) -
2005



Melaleuca stem-gall fly
(*Lophodiplosis trifida*) -
2008

Currently in quarantine



Melaleuca flower weevil
(*Haplonyx multicolor*)



Melaleuca puff-ball gall
(*Beesonina* sp.)

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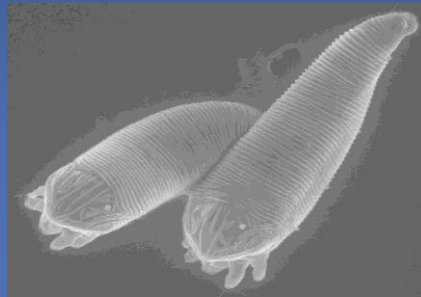


Control Agents for Old World Climbing Fern (*Lygodium microphyllum*)

Previously released



Brown Lygodium moth
(*Neomusotima conspurcatalis*) - 2008



Lygodium gall mite
(*Floracarus perrepae*)



Lygodium moth
(*Austromusotima camptozonale*) -
2004

Currently in quarantine



Lygodium sawfly
(*Neostrombocerus albicomus*)

Project Authorization and Appropriation

- Project was included in the April 1999 CERP Feasibility Report approved by Congress
- Section 601(c) of the Water Resources Development Act of 2000 provides programmatic authority to implement projects costing under \$25 million
- Project Implementation Report was approved by the in June 2010
- Federal funding for construction was appropriated in the American Recovery and Reinvestment Act of 2009



Project Partnership Agreement

- Incorporates the terms and conditions of the CERP Master Agreement
- Estimated construction cost = \$1,750,000
- Estimated annual operations and maintenance cost = \$660,000



Agency Responsibilities

- USACE will be responsible for funding and administering design and construction contracts
- SFWMD will be responsible for providing the lands needed for the project
- SFWMD responsible for providing 50 percent cost-share for construction on a programmatic basis under CERP Master Agreement
 - No cash contribution anticipated



Agency Responsibilities

(Cont.)

- SFWMD will be responsible for performing operations, maintenance, repair, replacement and rehabilitation
 - Mass Rearing Annex will be operated and maintained for 24 years under this Agreement
 - SFWMD will contract with U.S. Department of Agriculture – Agricultural Research Service (USDA-ARS) to provide these functions
 - USACE will provide 50% cost-share on an annual basis

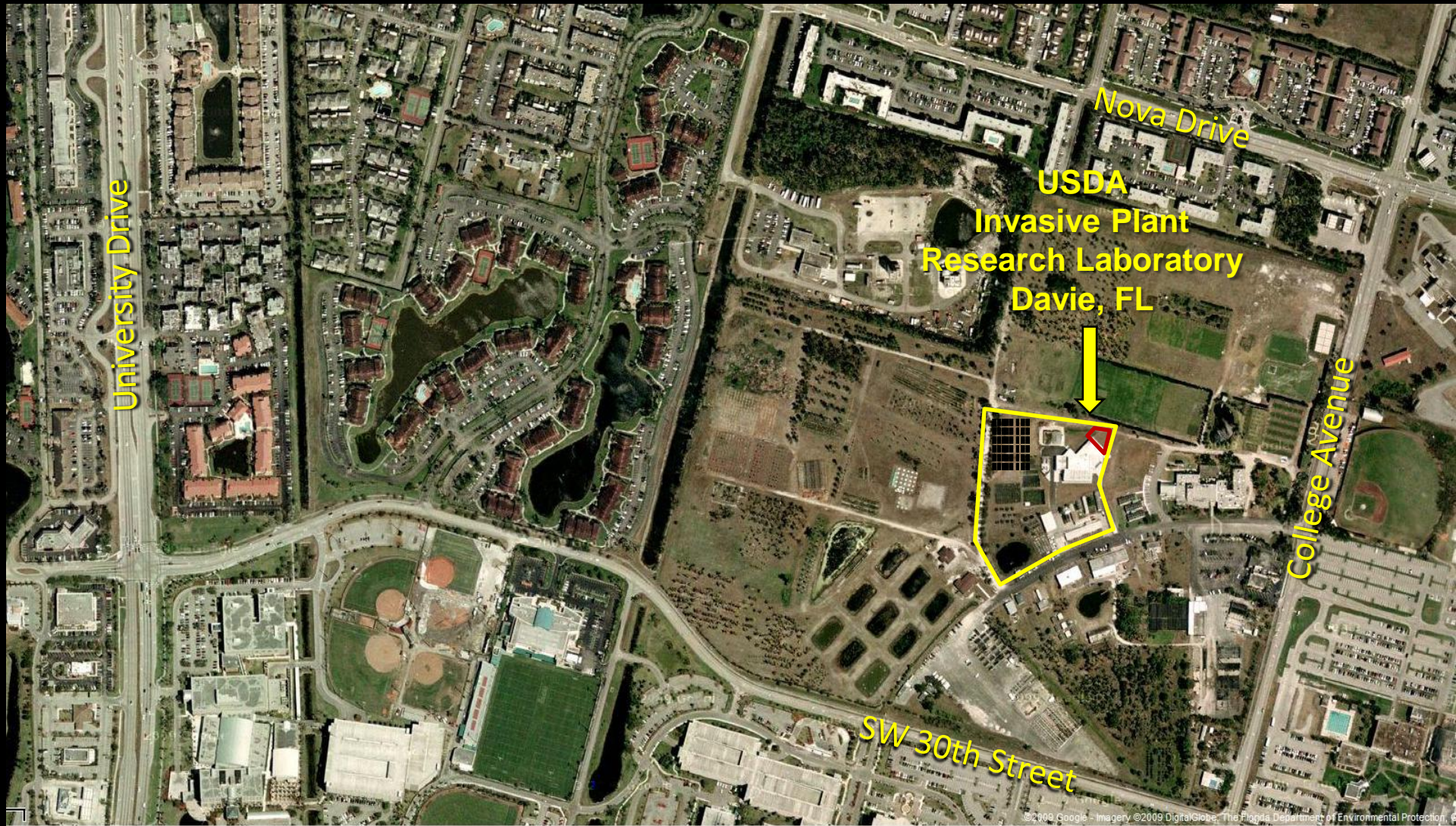


Project Lands

- Mass Rearing Annex will be constructed on a 0.19-acre parcel adjacent to the existing USDA-ARS Invasive Plant Research Laboratory in Davie, Florida
 - Owned by the Board of Trustees for the Internal Improvement Fund for the State of Florida
 - Leased to the University of Florida
 - Subleased to USDA-ARS
- Under the requested Cooperative Agreement (Agenda Item #38), the land will be dedicated to the CERP Project, and SFWMD and USACE will be provided access for implementation of the Project
- No cost to SFWMD



Mass Rearing Annex Location in Davie, FL



USDA – ARS Invasive Plant Research Laboratory



RESOLUTION FOR AGENDA ITEM #37

A RESOLUTION OF THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT AUTHORIZING ENTERING INTO A PROJECT PARTNERSHIP AGREEMENT WITH THE U.S. DEPARTMENT OF THE ARMY FOR CONSTRUCTION, OPERATION, MAINTENANCE, REPAIR, REPLACEMENT, AND REHABILITATION OF THE MELALEUCA ERADICATION AND OTHER EXOTIC PLANTS - IMPLEMENT BIOLOGICAL CONTROLS PROJECT, A COMPONENT OF THE COMPREHENSIVE EVERGLADES RESTORATION PLAN, AT A TOTAL ESTIMATED CONSTRUCTION COST OF \$1,750,000 AND AN ESTIMATED ANNUAL OPERATIONS AND MAINTENANCE COST OF \$660,000, FOR WHICH THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT WILL BE RESPONSIBLE FOR PROVIDING A 50 PERCENT COST-SHARE, AND FOR WHICH FUNDING, IF ANY, IS SUBJECT TO GOVERNING BOARD APPROVAL OF FUTURE FISCAL YEARS BUDGETS; PROVIDING AN EFFECTIVE DATE. (CONTRACT NUMBER 4600002148)

RESOLUTION FOR AGENDA ITEM #38

A RESOLUTION OF THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT AUTHORIZING ENTERING INTO A COOPERATIVE AGREEMENT WITH THE BOARD OF TRUSTEES OF THE INTERNAL IMPROVEMENT TRUST FUND OF THE STATE OF FLORIDA, THE UNIVERSITY OF FLORIDA BOARD OF TRUSTEES, AND THE UNITED STATES DEPARTMENT OF AGRICULTURE - AGRICULTURAL RESEARCH SERVICE, AT NO COST, FOR DEDICATION AND CERTIFICATION OF APPROXIMATELY 0.19 ACRES OF LAND IN DAVIE, FLORIDA, FOR IMPLEMENTATION OF THE MELALEUCA ERADICATION AND OTHER EXOTIC PLANTS – IMPLEMENT BIOLOGICAL CONTROLS PROJECT, A COMPONENT OF THE COMPREHENSIVE EVERGLADES RESTORATION PLAN; PROVIDING AN EFFECTIVE DATE. (CONTRACT NUMBER 4600002151)

